React & AJAX example with useEffect, .env.local, routing w. params etc.

Contents

public/index.html (unchanged)

```
<body>
    <noscript>You need to enable JavaScript to run this app.</noscript>
    <div id="root"></div>
    <!--
      This HTML file is a template.
      If you open it directly in the browser, you will see an empty page.
-->
</body>
```

src/index.js (now could be slightly changed, or put Router to App.js)

```
… not all code there important
import { BrowserRouter } from 'react-router-dom';
…

const root = ReactDOM.createRoot(document.getElementById('root'));

root.render(
  <React.StrictMode>
    <BrowserRouter>
      <App />
    </BrowserRouter>
  </React.StrictMode>
);
```

src/App.js

```javascript
import { Routes, Route, NavLink } from 'react-router-dom';
import './App.css';
import CategoryListView from './views/CategoryListView';
import CategoryDetailsView from './views/CategoryDetailsView';

function App() {
  return (
      <div className="App">
        <nav>
          <span>Extra navbar at top: </span>
          <NavLink to="/category">Categories</NavLink>
        </nav>
        <Routes>
          <Route path="category" element={<CategoryListView />} />
          <Route path="/category/:categoryId" element={<CategoryDetailsView />} />
        </Routes>
      </div>
  );
}
export default App;
```

src/components/CategoryRow.js

```javascript
import React from "react";

const CategoryRow = ({category}) => {
    return (<div>{`${category.id} : ${category.name}`}</div>);
}

export default CategoryRow;
```

src/components/CategoryListItem.js

```javascript
import React from "react";
import CategoryRow from "../components/CategoryRow";
import {Link} from "react-router-dom";

const CategoryListItem = ({category}) => {
    return (
        <Link to={`/category/${category.id}`}>
                <CategoryRow category={category} />
        </Link>
    );
}

export default CategoryListItem;
```

src/views/CategoryListView.js

```jsx
import React, {useState, useEffect} from "react";
import CategoryRow from "../components/CategoryRow";
import dao from "../ajax/dao";

const CategoryListView = () => {
    const [categories, setCategories] = useState([]);

    useEffect(() => {
        // ...do something ONLY when component did mount
        // Notice: even if categories state change => not fired
        async function refreshCategories () {
            const data = await dao.fetchCategories();
            setCategories(data);
        }
        refreshCategories();
    },[]);

    useEffect(() => {
        // ...do something when 1. component did mount
        // 2. categories state changes
    },[categories]);

    return (
        <>
        <h3>Categories</h3>
        <div>
            {categories && categories.length>0 ?
                categories.map((item)=>
                    <CategoryRow    key={item.id}
                                    id={item.id}
                                    category={item} />
            ) : "no categories yet"
        }
        </div>
        </>
    );
```

src/views/CategoryListView.js

```javascript
import React, {useState, useEffect} from "react";
import {Link, useParams } from "react-router-dom";
import dao from "../ajax/dao";

const CategoryDetailsView = () => {
    const [category, setCategory] = useState([]);
    const {categoryId} = useParams();

    useEffect(() => {
        async function getCategory () {
            const data = await dao.fetchOneCategoryById(categoryId);
            setCategory(data);
        }
        getCategory();
    },[]);

    return(
        <div>
            <h1>Details of a Category</h1>
            <dl>
                <dt>id: {category.id}</dt>
                <dd>name: {category.name}</dd>
                <dd>budget: {category.budgetLimit}</dd>
            </dl>
            <nav>
                <Link to="/category">Back to list</Link>
            </nav>
        </div>

    );
}

export default CategoryDetailsView;
```

.env.local --- add that in the root folder of the repo/project

```
REACT_APP_BE_SERVER_BASE_URL=http://localhost:8777/api
```

src/ajax/dao.js

```javascript
const baseUrl = process.env.REACT_APP_BE_SERVER_BASE_URL;


const fetchCategories = async () => {
    const request = new Request(`${baseUrl}/category/all`,{
        method: 'GET',
    });

    const response = await fetch(request);
    const data = await response.json();
    return data;
};

const fetchOneCategoryById = async (categoryId) => {
    const request = new Request(`${baseUrl}/category/${categoryId}`,{
        method: 'GET',
    });

    const response = await fetch(request);
    const data = await response.json();

    const category = data && data.length>0 ? data[0] : null;
    return category;
};


export default {
    fetchCategories,
    fetchOneCategoryById,
};
```